

Wide Band Double Ridge Horn Antenna 0.4GHz-4GHz



Note: Photo is for illustration purposes only.
Please refer to outline drawing.

Features

- High power operational up to 100W CW
- compacted package in high gain cross band.
- Wide bandwidth, flat frequency response.
- MIL-E-5400 standard.
- Customized unit is available upon request.

Product Description

RWDRHA0G04 is a wide band double ridge horn antenna with a frequency range of 0.4 to 4GHz.

The power handling of the antenna is 100W CW.

The working temperature of this product is between - 55°C and + 85°C.

Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

Electrical Specifications (T_A=+25°C)

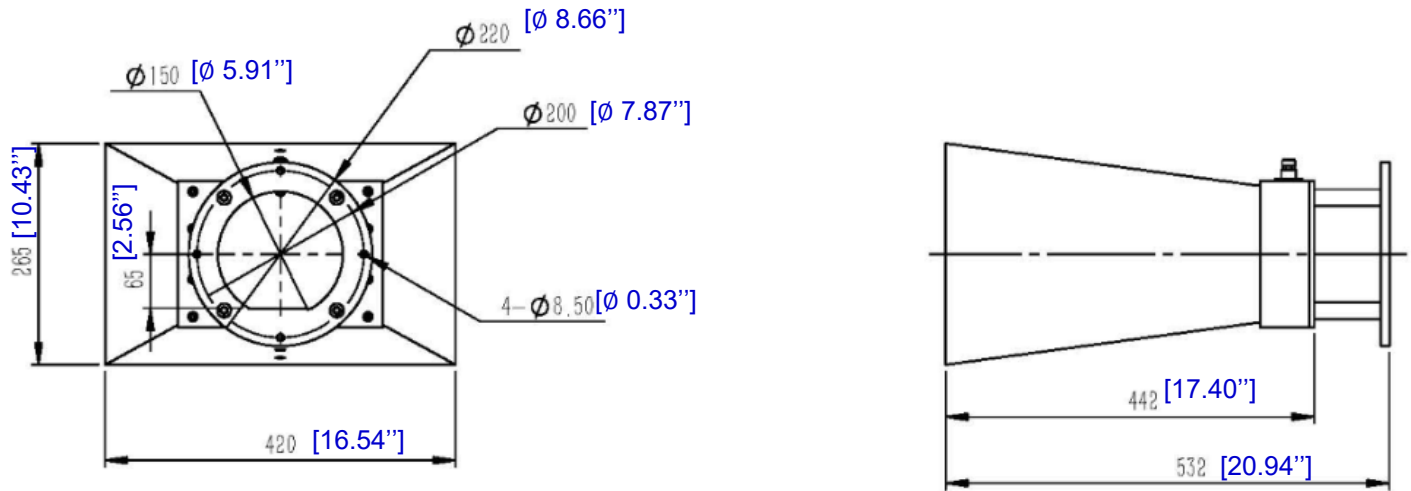
Parameter	Min	Typ	Max	Units
Frequency Range		0.4-4		GHz
Gain		6-15		dB
VSWR			2.5	:1
Isolation	20			dB
Power Handling (CW)		100		W
Impedance		50		Ω
Weight		28.7 Max.		lbs.
Input / Output Connectors	N-Female			
Package	Epoxy Sealed (Standard)			
	Hermetically Sealed (Optional)			

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-55°C to +85°C (Case Temperature)
Storage Temperature	-55°C to +100°C
Thermal Shock	-55°C → +85°C (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

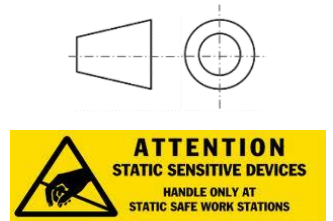
**For vibration testing details please see additional information section.

Outline Drawing



Notes:

1. Package Material: Aluminum
2. All dimensions are in millimeters [inches].
3. Standard torque wrench must be used to secure RF connectors.



Additional Information

Documentation	Webpage
ESD Policy	https://rflambda.com/pdf/rflambda_esd_control.pdf
Connector Torque Specifications	https://www.rflambda.com/pdf/Torque_Specifications.pdf
Random Vibration Test Standard	https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Ordering Information

Part Number	Modification	Description
RWDRHA0G04	Connector N-Female	0.4GHz-4GHz Wide Band Double Ridge Horn Antenna

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